REPORT

DATE:

February 2, 2006

TO:

Energy and Environment Committee

Regional Council

FROM:

Jessica Kirchner, Associate Regional Planner, kirchner@scag.ca.gov, (213)236-1983

SUBJECT:

Conformity Finding for the Fine Particle Standard

EXECUTIVE DIRECTOR'S APPROVAL:

RECOMMENDED ACTION:

Approve the Transportation Air Quality Conformity Determination for the Fine Particle standard for the 2004 RTP and 2004 RTIP and recommend to the Regional Council to adopt Resolution 06-471-2.

(Regional Council action: to adopt Resolution 06-471-2)

SUMMARY:

The EEC released the Draft Fine Particle (PM2.5) Conformity Determination for public review and comment on November 22, 2005. The public comment period closed on January 5, 2006. A public hearing was held at SCAG on January 5, 2006. SCAG did not receive any public comments on the Draft Conformity Determination.

BACKGROUND:

The fine particle standard is a new federal health-based standard for particulate pollution that is 2.5 microns or smaller (particulate matter (PM2.5)). This new regulation requires the Southern California Association of Governments (SCAG) to receive approval from the United States Department of Transportation (USDOT) on SCAG's conformity determination on the 2004 Regional Transportation Plan (RTP) and the 2004 Regional Transportation Improvement Program (RTIP) by April 5, 2006 or the region risks a conformity lapse. Non-attainment area designations for the new fine particle standard became effective on April 5, 2005, and an approved conformity determination is required by April 5, 2006, one year after the effective date. A conformity determination consists of regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs), the use of the latest planning assumptions, appropriate documentation of findings, interagency consultation, and public involvement. The Fine Particle conformity determination reaffirms all of the applicable conformity findings for the 2004 RTP and 2004 RTIP and addresses additional analyses required for the new Fine Particle standard.

FISCAL IMPACT:

Mul Funds for air quality and conformity analysis are included in the FY 05/06 Overall Work Program.



RESOLUTION No. 06-471-2

RESOLUTION OF

SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS
TO ADOPT THE CONFORMITY DETERMINATION FOR THE FINE
PARTICULE (2.5) STANDARD FOR THE 2004 REGIONAL
TRANSPORTATION PLAN AND THE 2004 REGIONAL TRANSPORTATION
IMPROVEMENT PROGRAM

WHEREAS, the Southern California Association of Governments (SCAG) is the federally designated Metropolitan Planning Organization (MPO) pursuant to 23 U.S.C. §134(d) for the Counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura, and as such, is responsible for the preparation, adoption and regular revision of the Regional Transportation Plan (RTP) and the Regional Transportation Improvement Program (RTIP) pursuant to 23 U.S.C. §134 et seq. 49 U.S.C. §5303 et seq. and 23 C.F.R. §450.312;

WHEREAS, SCAG is the designated Regional Transportation Planning Agency (RTPA) under state law, and as such, is responsible for preparation of both the RTP and RTIP under California Government Code §§ 65080 and 65082 respectively;

WHEREAS, 42 U.S.C. § 7506(c)(1) requires SCAG's 2004 RTP and 2004 RTIP to conform with the applicable State Implementation Plan (SIPs) developed for the federal non-attainment and maintenance areas in the Mojave Desert Air Basin, the Ventura County portion of the South Central Coast Air Basin, the South Coast Air Basin, and the Salton Sea Air Basin;

WHEREAS, SCAG, as the designated MPO, is required to comply with Sections 174 and 176(c) and (d) of the Clean Air Act [42 U.S.C. §§ 7504, 7506(c) and (d)];

WHEREAS, 23 U.S.C. §134(j)(2)(C) and 23 C.F.R. §450.324(f)(2) requires the 2004 RTIP to be consistent with the 2004 RTP;

WHEREAS, 23 U.S.C. § 134 (c)(3) and 23 C.F.R. § 450.312 require SCAG, as the designated MPO, to maintain a continuing, cooperative and comprehensive transportation planning process in its development of the RTP and RTIP;

WHEREAS, SCAG has worked concurrently with local, state and federal jurisdictions in a continuing, cooperative and comprehensive manner as required by provisions of Federal and State law on the transportation planning processes;

WHEREAS, federal regulations at 23 C.F.R. § 450.332(e) require that in non-attainment and maintenance areas, funding priority be given to timely implementation of Transportation Control Measures (TCMs) contained in the applicable SIPs in accordance with the conformity regulations at 40 CFR Parts 51 and 93;

WHEREAS, non-attainment area designations for the new fine particle (PM2.5) standard became effective on April 5, 2005, and an approved conformity determination is required one year after the effective date;

WHEREAS, new federal conformity regulation for PM2.5 requires the Southern California Association of Governments (SCAG) to receive approval from the United States Department of Transportation (US DOT) on SCAG's conformity determination by April 5, 2006;

WHEREAS, fine particle (PM2.5) non-attainment area in the SCAG region includes only the South Coast Air Basin (SCAB);

WHEREAS, the Southern California Transportation Conformity Working Group (TCWG) and the Energy and Environment Committee developed an efficient process to obtain an approved PM2.5 conformity determination for the 2004 RTP and RTIP;

WHEREAS, the PM2.5 conformity determination entails reaffirming previously approved analyses and findings for the 2004 RTP and 2004 RTIP;

WHEREAS, the conformity rule interim emissions test, known as *less than baseline year*, requires demonstration that implementing the 2004 RTP and the 2004 RTIP is not projected to increase emissions of fine particles (PM2.5) in future years above the emissions in the baseline year 2002.

WHEREAS, the Draft Conformity Determination for the PM2.5 Standard was available for public review and comment from November 22, 2005 to January 5, 2006;

WHEREAS, a public hearing was conducted at the Southern California Association of Governments on January 5, 2006;

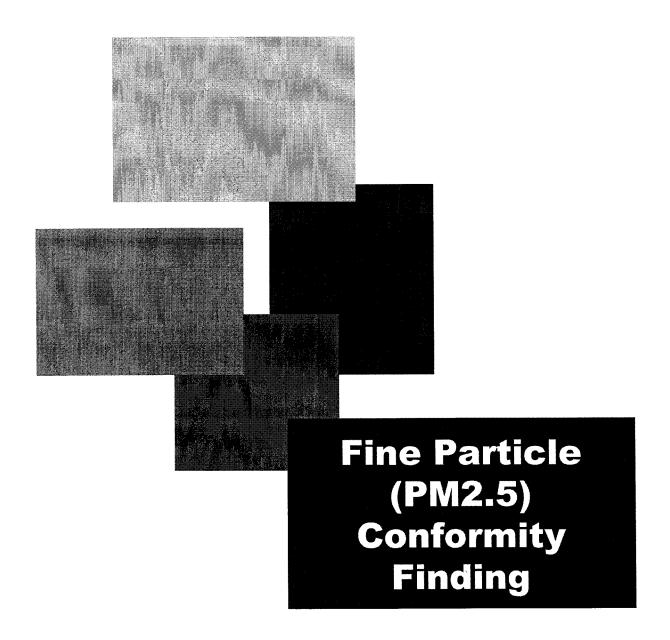
NOW, THEREFORE BE IT RESOLVED that

- (1) Southern California Association of Governments finds as follows:
 - (a) SCAG's 2004 RTP/RTIP regional emissions (build scenario) for direct PM2.5 emissions and PM2.5 precursors are less than the no-build emissions for the South Coast Air Basin;
 - (b) The conformity findings for both the 2004 RTP and the 2004 RTIP are reaffirmed for all applicable pollutants, including regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs) report, applying the use of the latest planning assumptions and the latest approved emissions model, reaffirming consistency between the adopted 2004 RTIP and the adopted 2004 RTP, and reaffirming the process for interagency consultation and public participation;
 - (c) In addition to reaffirming the already conducted public involvement and interagency consultation test for the 2004 RTP/RTIP, the PM2.5 conformity underwent the appropriate process for interagency consultation and public participation;

(2) The Regional Council hereby adopts the conformity findings for all federal non-attainment and maintenance areas in the SCAG region, and authorizes the Executive Director or his designee to transmit the Conformity Determination for the PM2.5 Standard for the 2004 RTP and the 2004 RTIP to the Federal Transit Administration and the Federal Highway Administration to make the final conformity determination in accordance with the Federal Clean Air Act and EPA Transportation Conformity Rule at 40 CFR Parts 51 and 93.

Adopted by the Regional Council of the Southern California Association of Governments at a regular meeting on this 2nd day of February 2006.

TONI YOUNG	
President, SCAG	
Councilmember, City of Po	ort Hueneme
, •	
Attest:	
MARK PISANO	
Executive Director	•
Approved as to Legal Forn	n:
	KAREN TACHIKI
	Legal Counsel



I. PREFACE

This conformity report covers all federally required analyses for the Fine Particle (PM_{2.5}) conformity determination for the 2004 Regional Transportation Plan (RTP) and 2004 Regional Transportation Improvement Program (RTIP). A conformity determination consists of regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs), the use of the latest planning assumptions, appropriate documentation of findings, interagency consultation, and public involvement. The Fine Particle conformity determination reaffirms all of the applicable conformity findings for the 2004 RTP and 2004 RTIP and addresses additional analyses required for the new Fine Particle standard. Additionally, per 40 CFR 93.122(g), the conformity determination relies on the previous regional emissions analyses as developed for the RTIP/RTP for NO2, CO and PM10 and for the 8-hour Ozone conformity determination approved by US Department of Transportation on May 12, 2005.

The Fine Particle standard is a new federal health-based standard for particulate pollution that is 2.5 microns or smaller (particulate matter (PM_{2.5})). This new regulation requires the Southern California Association of Governments (SCAG) to receive approval from the United States Department of Transportation (US DOT) on SCAG's conformity determination on the 2004 Regional Transportation Plan (RTP) and the 2004 Regional Transportation Improvement Program (RTIP) by April 5, 2006 or the region risks a conformity lapse. Non-attainment area designations for the new fine particle (PM_{2.5}) standard became effective on April 5, 2005, and an approved conformity determination is required by April 5, 2006, one year after the effective date.

Conformity Status of Adopted RTP and RTIP

The adopted 2004 RTP and 2004 RTIP conform to the air quality goals established by the State (air quality) Implementation Plan (SIP). Specifically, the 2004 RTP and RTIP will 1) not create new violations of the federal air quality standards, 2) not increase the frequency or severity of existing violations of the standards, and 3) not delay attainment of the standards.

The effective date for the conformity determination for the adopted 2004 RTP, including all of the air basins, is June 7, 2004, and the effective date of the federal conformity determination for the 2004 RTIP is October 4, 2004. The conformity determination for the adopted RTP is currently effective for three years; thus, the RTP conformity will remain effective until June 7, 2007. The conformity determination for the adopted RTIP is currently effective for two years; thus, the RTIP conformity will remain effective until October 4, 2006.

The Fine Particle conformity determination does not affect the existing conformity schedule for the RTP or RTIP. However, the new federal conformity regulation for PM_{2.5} requires the Southern California Association of Governments (SCAG) to make a positive conformity determination and receive approval from the United States Department of Transportation (US DOT) by April 5, 2006 or the region's conformity will lapse.

2004 RTP and RTIP Conformity Findings for the Fine Particle (PM2.5) Standard

The Southern California Transportation Conformity Working Group (TCWG) discussed an efficient process to obtain an approved PM_{2.5} conformity determination for the 2004 RTP and RTIP (August 23, 2005 http://www.scag.ca.gov/tcwg/), and staff presented this process to the SCAG Energy and Environment Committee on September 1, 2005. This process entails reaffirming previously approved air quality conformity analyses and findings for the 2004 RTP and 2004 RTIP and addressing additional analyses required by the new Fine Particle standard. This approach parallels the process for the 8-hour ozone conformity determination.

Proposed process for Fine Particle conformity determination on the 2004 RTP and RTIP:

- 1. Conduct ongoing public participation and interagency consultation throughout the process.
- 2. Perform regional emission analysis. PM_{2.5} is a new air quality standard with no established emission budgets, and requires an *interim emissions test*. The interim emissions test requires SCAG to demonstrate that implementing the 2004 RTP and the 2004 RTIP is not expected to cause PM_{2.5} emissions to exceed emissions in year 2002. This PM_{2.5} conformity determination includes regional emissions analysis for direct PM_{2.5} emissions and NOx as a PM_{2.5} precursor. The modeling years are the 2002 baseline year and 2010, 2020, and 2030.
- 3. Reaffirm the existing conformity findings for the 2004 RTP and 2004 RTIP.
- 4. Release the draft conformity analyses and documentation for the new $PM_{2.5}$ standard in November 2005 for a public comment period.
- 5. Hold a public hearing in January 2006.
- 6. Adopt the resolution making the final conformity determination in February 2006.
- 7. Send SCAG's Conformity Determination to the federal agencies for approval.
- 8. Approval by federal agencies before April 5, 2006.

Reaffirming approved conformity findings for NO2, Ozone, PM_{10} , and CO:

The fine particle conformity determination includes a reaffirmation of the approved conformity findings for both the 2004 RTP and the 2004 RTIP. This reaffirmation includes regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs) report, the use of the latest planning assumptions and the latest approved emissions model, and the appropriate documentation of findings, including reaffirming the process for interagency consultation and public participation.

II. FINE PARTICLE (PM_{2.5}) CONFORMITY REQUIREMENTS

Introduction

The Southern California Association of Governments (SCAG), the Metropolitan Planning Organization (MPO) for Southern California, is mandated to comply with all applicable federal and state transportation and air quality regulations. As stated above, the new federal conformity regulation for fine particles (PM_{2.5}) requires SCAG to receive approval from the United States Department of Transportation (US DOT) on SCAG's conformity determination by April 5, 2006. Non-attainment area designations for the new for fine particle (PM_{2.5}) standard became effective on April 5, 2005, and an approved conformity determination is required one year after

the effective date. If US DOT does not approve SCAG's determination by April 5, 2006, then the region's conformity will lapse.

Fine Particle (PM_{2.5}) Non-attainment Area

The South Coast Air Basin is the only PM_{2.5} non-attainment area in the SCAG Region and is illustrated in the map attached at the end of this report.

Table 1: SCAG Region - Fine Particle (PM2.5) Non-attainment Area

Non-attainment Area	Maximum Attainment Date			
South Coast Air Basin	2010 with a possible 5 year extension to			
(SCAB)	2015			

Interim Emissions Test for Fine Particle (PM2.5)

Fine particulate matter (PM_{2.5}) is a new air quality standard, and requires an interim emissions test. An interim emissions test is required before new emissions budgets, which establish the maximum allowable level of specific emissions for particular future years, are developed as part of the PM_{2.5} Air Quality Management Plan/State Implementation Plan (SIP). The interim emissions test for PM_{2.5} requires SCAG to run the regional transportation model and the state emissions model (Burden/EMFAC2002) for the year 2002 and for future milestone years, including 2010, 2020, and 2030. The interim emissions test employed for this PM_{2.5} conformity determination is called the *baseline year test*, which entails comparing PM_{2.5} emissions modeled for future milestone years to PM_{2.5} emissions in baseline year 2002. In order to pass the baseline year test, SCAG is required to demonstrate that implementing the 2004 RTP and the 2004 RTIP is not projected to increase emissions of fine particles (PM_{2.5}) in future years above the emissions in the baseline year 2002.

The final PM_{2.5} rule requires PM_{2.5} non-attainment areas to consider both direct PM_{2.5} emissions and significant precursor emissions. The final federal PM_{2.5} rule adds PM_{2.5} precursors, such as nitrogen oxides (NOx), to the transportation conformity regulations because these gases react and cool to form fine particles. Prior to the submission of the proposed PM_{2.5} State Implementation Plan (SIP/Air Quality Management Plan), direct PM_{2.5} emissions and NOx emissions must be considered in PM_{2.5} conformity determinations. For this initial PM_{2.5} conformity determination, no federal significance findings have been made to add any additional PM_{2.5} precursors, although additional PM_{2.5} precursors may be required for future conformity determinations after a PM_{2.5} State Implementation Plan has been submitted to US EPA, if additional PM_{2.5} precursors are determined to be important contributors to PM_{2.5} problems in the South Coast Air Basin.

Summary of the 2004 RTP and 2004 RTIP Regional Emissions Analyses for PM_{2.5}

- Emissions for the PM2.5 conformity determination were calculated using the annual output from the EMFAC2002 emissions model. Annual emissions were calculated by multiplying daily emissions by 365. Emissions output is shown in the Appendix at the end of this report.
- ➤ Baseline emissions for the year 2002 were calculated by constructing a network for 2002 and interpolating socioeconomic data.
- Future year emissions (2010, 2020 and 2030) were taken from the 2004 RTP/RTIP.
- ➤ To pass the baseline year interim regional emissions test for the conformity finding, projected direct PM_{2.5} emissions and NOx emissions must be less than or equal to direct PM_{2.5} emissions and the NOx emissions in the baseline year 2002.
- > Planning assumptions are documented in Appendix E of the 2004 RTP (p. E-28-E-42) and Technical Appendix Section II of the 2004 RTIP (p. II-5-II-17).
 - * EMFAC 2002 was used for Regional Emissions Analysis.
 - * Modeling networks for each milestone year are based on projects and completion dates included in Appendix I of the 2004 RTP and Technical Appendix Section II of the 2004 RTIP (beginning on p. II-60).

A summary of the regional emissions analysis (conformity findings) is tabulated below. Additional emissions data is provided in the Appendix at the end of this document.

24-hour PM_{2.5} Standard for South Coast Air Basin (SCAB)*

417 P	Pollutant	2010	2020	2030
PM _{2.5}	Baseyear emissions	13.27	13.27	13.27
	2004 RTP/RTIP	12.49	12.06	12.72
NO _x	Baseyear emissions	715.34	715.34	715.34
	2004 RTP/RTIP	417.99	192.74	125.75

Regional emissions generated using EMFAC 2002. To pass, RTP/RTIP emissions must be equal or less than baseyear emissions.

Annual PM_{2.5} Standard for South Coast Air Basin (SCAB)

	Pollutant	2010	2020	2030
PM _{2.5}	Baseyear emissions	4844	4844	4844
	2004 RTP/RTIP	4559	4402	4643
NO _x	Baseyear emissions	261,099	261,099	261,099
	2004 RTP/RTIP	152,565	70,351	45,898

Regional emissions generated using EMFAC 2002. To pass, RTP/RTIP emissions must be equal or less than baseyear emissions.

^{*} Based on annual average emissions

Conformity Determinations

SCAG has determined the following conformity findings for the 2004 RTP and 2004 RTIP under the required federal tests for the new fine particle (PM_{2.5}) standard:

Regional Emissions Tests

Finding: SCAG's 2004 RTP/RTIP regional emissions for direct PM_{2.5} and NOx are less than the baseline year 2002 for the 24-hour and the annual standard in the South Coast Air Basin.

Financial Constraint/Timely Implementation

> Since the 2004 RTIP, one of the TCMs (CenterLine) is being replaced; currently the substitute projects and the financial changes are being processed and will be reflected in an amendment.

Reaffirmation of 2004 RTP/RTIP Conformity Tests

Finding: SCAG reaffirms the applicable conformity findings for both the 2004 RTP/RTIP, which can be found at:

http://www.scag.ca.gov/rtp2001/2004draft/techappendix/FinalTechAppend.htm and:

http://www.scag.ca.gov/RTIP/final04/Sec1.pdf.

➤ This reaffirmation covers the findings for all applicable pollutants, including regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs) report, applying the use of the latest planning assumptions and the latest approved emissions model, reaffirming consistency between the adopted 2004 RTIP and the adopted 2004 RTP, and reaffirming the process for interagency consultation and public participation.

Inter-agency Consultation and Public Involvement Test

➤ Finding: In addition to reaffirming the already conducted public involvement and interagency consultation test for the 2004 RTP/RTIP, the fine particle (PM_{2.5}) conformity determination underwent an appropriate process for interagency consultation and public participation. This process included Transportation Conformity Working Group consultations on August 23, 2005 October 25, 2005, and December 27, 2005; Energy and Environment Committee updates on September 1, 2005 and November 3, 2005 and a briefing of the Subregional Coordinators on October 27, 2005. An announcement of the public comment period was placed on the SCAG website on November 22, 2005. Copies of the PM_{2.5} Conformity Determination packet were distributed to twelve regional libraries. A formal Public Hearing was held at SCAG's offices on January 5, 2006. This event was advertised in several regional newspapers in December of 2005, including the Imperial Valley Press, La Opinion, Long Beach

Press Enterprise, Los Angeles Times, Orange County Register, San Bernardino Sun, Riverside Press-Enterprise, and Ventura Star.

REGIONAL EMISSIONS ANALYSES

SOUTH COAST AIR BASIN (SCAB)

The South Coast Air Basin (SCAB) covers the urbanized portions of Los Angeles, Orange, Riverside, and San Bernardino counties, and is within the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

Particulate Matter 2.5 – 24 Hour Emissions

	YR 2002	YR 2010	YR 2020	YR 2030
2004 RTP/RTIP	N/A	12.49	12.07	12.71
Exhaust	10.48	9.49	8.83	9.20
Tire Wear	0.83	0.9	0.98	1.08
Brake	1.97	2.1	2.25	2.44
Total PM _{2.5} Exhaust	13.27	12.49	12.06	12.72
Baseyear Emissions	13.27	13.27	13.27	13.27
Difference (plan – baseyear)	N/A	-0.78	-1.21	- 0.55

Conformity finding requirement: PM_{2.5} plan emissions must be equal or less than baseyear.

Particulate Matter 2.5 – Annual Emissions

	YR 2002	YR 2010	YR 2020	YR 2030
2004 RTP/RTIP	N/A	4559	4406	4639
Exhaust	3,825	3,464	3,223	3,358
Tire Wear	303	329	358	394
Brake	719	767	821	891
Total PM _{2.5} Exhaust	4,844	4,559	4,402	4,643
Baseyear Emissions	4,844	4,844	4,844	4,844
Difference (plan – baseyear)	N/A	-285	-442	-201

Conformity finding requirement: PM_{2.5} plan emissions must be equal or less than baseyear.

Oxides of Nitrogen - 24 Hour Emissions

	YR 2002	YR 2010	YR 2020	YR 2030
2004 RTP/RTIP	N/A	417.99	192.74	125.75
Baseyear Emissions Difference (plan – baseyear)	71 5.34 N/A	715.34 -297.35	715.34 -522.60	715.34 -589.59

Conformity finding requirement: PM_{2.5} plan emissions must be equal or less than baseyear

Oxides of Nitrogen - Annual Emissions

	YR 2002	YR 2010	YR 2020	YR 2030
2004 RTP/RTIP	N/A	152,565	70,351	45,898
Baseyear Emissions Difference (plan – baseyear)	261,099 N/A	261,099 -108,534	261,099 -190,748	261,099 -251,201

Conformity finding requirement: $PM_{2.5}$ plan emissions must be equal or less than baseyear.

SUMMARY OF EMISSIONS ANALYSIS OF ADDITIONAL CRITERIA POLLUTANTS

In addition to the regional emissions analysis for PM_{2.5}, below is a summary of the regional emissions analysis for additional criteria pollutants in the SCAG region. For more detailed tables, see Technical Appendix Section II of the 2004 RTIP (p. II-11 to II-59). All emissions are in tons per day.

South Coast Air Basin (SCAB)

Nitrogen Dioxide (NOx) -Winter

NO _x	YR 2005	YR 2010	YR 2020	YR 2030
BUDGET	686.000	686.000	686.000	686.000
2004 RTIP	613.664	448.827	205.602	132.970

Conformity finding requirement: the NOx emissions must be equal or less than emission budgets.

Carbon Monoxide (CO) – Winter

<u>CO</u>	YR 200 <u>5</u>	YR 2010	<u>YR 2020</u>	<u>YR 2030</u>
BUDGET	3,361.000	3,361.000	3,361.000	3,361.000
2004 RTIP	2,597.739	1,809.900	859.679	529.757

Conformity finding requirement: the CO emissions must be equal or less than emission budgets.

Particulate Matter Less Than 10 Microns (PM10) - Annual Average

ROG	YR 2006	YR 2010	YR 2020	YR 2030
BUDGET	251.000	251.000	251.000	251.000
2004 RTIP	245.350	189.074	106.433	72.495
<u>NOx</u>				
BUDGET	549.000	549.000	549.000	549.000
2004 RTIP	534.144	418.005	192.723	125.728
<u>PM10</u>				
BUDGET	166.000	166.000	166.000	166.000
2004 RTIP	165.927	163.375	161.520	163.893

Conformity finding requirement: the ROG, NOx, and PM10 emissions must be equal or less than emission budgets.

Ozone - Summer

Ozone Precursor					
ROG (VOC)	YR 2005	YR 2008	YR 2010	YR 2020	YR 2030
BUDGET	263.000	216.000	155.000	155.000	155.000
2004 RTP/RTIP	258.467	212.754	151.339	107.230	73.127
<u>NOx</u>					
BUDGET	546.000	546.000	352.000	352.000	352.000
2004 RTP/RTIP	542.271	453.459	349.	184.2	120.8

Conformity finding requirement: RTP/RTIP emissions must be equal or less than budget

Nitrogen Dioxide (NO2) - Winter

NO2 Precursor

NOx	YR 2005	YR 2010	YR 2020	YR 2030
BUDGET	686.000	686.000	686.000	686.000
2004 RTP/RTIP	6153.664.091	448.586	205.751	132.980

Conformity finding requirement: RTP/RTIP emissions must be equal or less than budget

Mojave Desert Air Basin (MDAB)

(San Bernardino County portion of MDAB excluding Searles Valley)

Particulate Matter Less Than 10 Microns (PM10) - Annual Average

PM10	YR 2005	YR 2010	YR 2020	YR 2030
2004 RTIP No-	7.875	9.066	10.966	13.262
Build	7.837	8.843	10.889	13.046
2004 RTP Plan	1.837	0.0 4 3	10.009	13.040

Conformity finding requirement: the Plan scenario's emissions must be equal or less than the No-Build scenario's emissions.

Western Mojave Desert Air Basin (MDAB)

Ozone - Summer

Ozone Precursor					
ROG (VOC)	YR 2005	YR 2007	YR 2010	YR 2020	YR 2030
BUDGET	21.900	19.100	19.100	19.100	19.100
2004 RTP/RTIP	18.800	16.436	13.330	7.690	6.340
<u>NOx</u>					
BUDGET	56.000	52.100	52.100	52.100	52.100
2004 RTP/RTIP	52.510	48.38	41.750	19.310	4.360

Conformity finding requirement: RTP/RTIP emissions must be equal or less than budget

Salton Sea Air Basin (SSAB) - Coachella Valley

Particulate Matter Less Than 10 Microns (PM10) - Annual Average

<u>PM10</u>	YR 2006	YR 2010	YR 2020	<u>YR 2030</u>
BUDGET	10.900	10.900	10.900	10.900
2004 RTIP Plan	9.168	9.484	10.044	10.671

Conformity finding requirement: the PM10 emissions must be equal or less than emission budgets.

Ozone - Summer

Ozone Precursor ROG (VOC) BUDGET 2004 RTP/RTIP	YR 2005	YR 2007	YR 2010	YR 2013	YR 2020	YR 2030
	4.600	4.100	4.100	4.100	4.100	4.100
	4.310	3.906	3.361	2.867	2.234	1.838
NOx BUDGET 2004 RTP/RTIP	12.300 12.008	11.100 11.016	11.100 9.305	11.100 7.623	11.100 4.913	11.100 3.460

Conformity finding requirement: the Build emissions must be less than the No-Build emissions.

Salton Sea Air Basin (SSAB) - Imperial County

Particulate Matter Less Than 10 Microns (PM10) - Annual Average

PM10	YR 2005	YR 2010	<u>YR 2020</u>	<u>YR 2030</u>
2004 RTIP No-Build	5.577	6.339	8.306	10.252
2004 RTIP Plan	5.574	6.334	7.798	9.610

Conformity finding requirement: the Plan scenario's emissions must be equal or less than the No-Build scenario's emissions.

Ozone - Summer

Ozone Precursor				
ROG (VOC)	YR 2005	YR 2010	YR 2020	YR 2030
No build (Baseline)	8.850	7.230	5.630	5.720
Build (Plan)	8.845	7.220	5.610	5.690
<u>NOx</u>				
No-Build (Baseline)	12.725	11.800	8.881	7.810
Build (Plan)	12.720	11.790	8.880	7.790

Conformity finding requirement: the Build emissions must be less than the No-Build emissions

Ventura County - South Central Coast Air Basin (VC/SCCAB)

Ozone - Summer

Ozone Precursor				
ROG (VOC)	YR 2005	YR 2010	YR 2020	YR 2030
BUDGET	14.300	14.300	14.300	14.300
2004 RTP/RTIP	14.180	10.670	6.160	4.170
NO _x				
BUDGET	21.400	21.400	21.400	21.400
2004 RTP/RTIP	21.190	15.170	6.800	4.350

Conformity finding requirement: RTP/RTIP emissions must be equal or less than budget

THE STATE OF TOWN THE PROTECTION

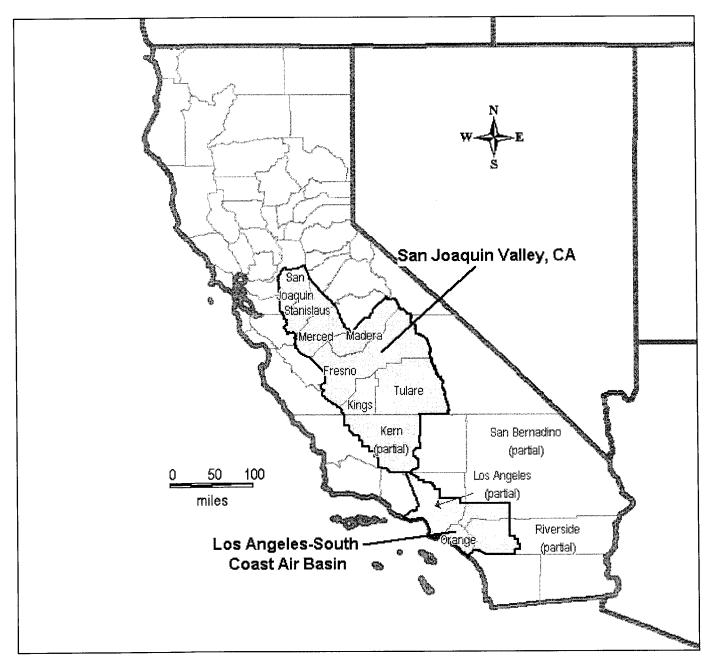
U.S. Environmental Protection Agency

Fine Particle (PM 2.5) Designations

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EPA Home > Air & Radiation > Six Common Air Pollutants > Particulate Matter > PM2.5 Designations > California Map

California PM 2.5 Designations Map



APPENDIX

YEAR 2002 - annual (02rr.zip)

Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2002 -- Model Years: 1965 to 2002

Run Date: 09/30/05 14:59:28 Season : Annual

Scal I car: 2002 - Incor I	7007			ı							3000 00	Md AC-CO-E	M	Page (1)
VEHICLE ON	-ROAD E	VEHICLE ON-ROAD EMISSIONS (Emissions in tone, VMT in 1000-mile	ions in tone, V	/MT in 1000-miles	s, Fuel Consun	nption in 1000-gallons	l-gallons) NOX	**************************************	Tire W	Friday, September 30		SOX	Gasoline	Diesel
SUB AKEA		VEHICLE	* TAT A			***************************************								
										•		,,,,	216 63	1647 88
		100701	07761	4707546	24 04	194.39	203.12	3.10	0.08	0.08	3.25	1.30	010.00	201
LOS(SCAB)	豆	180984	64071	21003700	69 101	1066 27	100 83	3 03	0.40	1.07	4.50	1.22	9400.72	21.40
	L&N	5254661	180280	37033/10	00.161	100001	900	22	000	100	0.33	0.17	75.90	172.21
	OTH	60580	1617	26098	3.07	40.28	423.46	445	0.00	1.15	60.8	2.94	9792.14	1871.54
	SUM	5502220	194547	37502400	718.00	50.1077	47.40	ì	2					
								į	•	5	97 0	0 36	02 18	405 49
(01/0//10/	TOT	21307	3450	1336680	5.38	44.36	48.08	0.64	0.0	70.0	0.0	0.0	27.10	5.50
OKA(SCAD)		50,000	60797	1303083	91 05	\$69.45	58.84	0.88	0.15	0.39	1.41	0.43	3312.33	00.17
	T W W	200002	96000	6906671		14.30	4 63	0.07	00.0	0.00	0.08	0.03	26.22	34.46
	HO	23302	489	14004	6.9	14.29	60.	5 .		170	316	0.85	3430.73	461.54
i	SUM	2142500	69646	14282200	65.40	628.12	111.55	 VC.	0.17	0.41	7.10	3		
							;	ì	6	6	8	65.0	104 75	544 26
PIVICAR	HDT	54262	4362	1366891	6.81	56.91	70.83	0.80	70.0	0.02	0.50	100	77.071	12.84
(200)	· FW	815063	32621	5056427	27.33	300.87	31.69	0.51	90.0	0.19	0.7×	0.22 0.52	1035.11	14.04
		10206	192	8478	090	11.80	2.80	0.04	0.00	0.00	0.05	0.05	20.00	17.08
	E 2	10393	301	6431900	34.74	369.57	105.31	1.41	0.10	0.22	1.73	0.75	1758.17	574.18
	SOM	07//00	71010	20075										
		0,001	2700	004441	7 (2)	37.30	\$1.60	0.62	0.01	0.01	99'0	0.39	62.40	402.57
SBD(SCAB)		40200	2467	202002	26.76	267.50	28.03	38.0	0.05	0.16	0.61	0.18	1376.25	9.18
	A.M	071608	177/7	7767700	60.03	66.79	13	800	8	90	0.03	0.01	12.52	15.12
	HIO	12873	167	1697	6.57	7.70	01 06	200	800	0.18	1 20	0.57	1451.15	426.86
	SUM	862253	30404	0775109	31.74	512.39	61.0	8:1	000		Ì			
									71.0	71.0	6	7 9 2	574 84	3000 18
SCAB SUM	HDT	331019	23416	8480547	40.76	332.93	313.12	3.21	0.10			90.5	16777 04	90 00
	LEM	8948519	305820	55664001	304.79	3104.27	318.39	4.81	9.08	79.1	67.1	6.03	10.777	73.00
	HIC	115150	2705	87191	4.92	80.09	30.04	0.46	0.00	0.02	0.48	0.24	133.30	79.87
	SUM	9394690	331939	64231700	350.47	3517.31	722.16	10.48	0.83	1.97	13.27	5.12	16432.18	3334.11

Banning Area is included in SCAB, not in Coachella Valley
SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others
L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle
HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck
OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

CO = 2796.69 NOx = 279.42802SCAB.pm 802BRDN.SUM SCAB R2202 : VOC = 254.74 D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

Run Date: 09/30/05 14:01:30

Season: Annual

YEAR 2010 - annualPLAN (10p.zip)
Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled **
Scen Year: 2010 -- Model Years: 1965 to 2010

SURA(SCAB) HDT 206188 14192 502447 16.38 10497 17796 2.03 Tire W Brake W PMZ-5cm Tire W Brake W PMZ-5cm Moral Brake W PMZ-5cm Tire W Brake W PMZ-5cm Cops	ROG CO NOX PM2.5cx Tire W Brake W PM2.5sum SOx 16.38 1104.97 137.96 2.03 0.09 2.21 0.25 98.77 1015.22 96.71 3.47 0.41 1.09 4.97 0.87 2.35 27.00 16.94 0.28 0.00 0.01 0.29 0.02 117.59 1147.19 251.58 5.78 0.07 0.01 0.29 0.02 3.41 21.51 252.18 5.78 0.02 0.04 0.02 0.02 0.69 8.67 1.07 0.16 0.44 2.20 0.03 0.03 0.69 8.67 4.23 0.07 0.00 0.00 0.08 0.03 0.06 0.00 3.74 2.691 43.76 0.55 0.02 0.03 0.06 0.00 0.00 0.00 0.00 2.61 17.29 16.32 0.67 0.09 0.03 0.06	ACE NO E IOMBA	E CADA	MISSIONS (Emiss	sions in tone.		es, Fuel Consumption in 1000-gallors	nption in 1000	O-gailons)			Friday, Septa	Friday, September 30, 2005	2:05:33 PM	PM	Page (1)
HDT 206188 14192 5023477 16.38 104.97 137.96 2.03 0.09 2.21 0.25 274.67 L&M 5488792 18670 388375 16.38 104.97 137.96 2.03 0.09 0.09 2.21 0.07 0.09 4.97 0.07 0.07 0.01 0.29 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.	HDT 206188 14192 5023477 16.38 104.97 137.96 2.03 0.09 0.09 4.97 0.87 L&M 548792 118037 3881800 98.71 137.96 2.03 0.09 4.97 0.87 OTH 64681 1746 3893720 117.59 1147.19 251.38 5.78 0.01 0.09 4.97 0.87 SUM 5760660 200976 38935200 117.59 1147.19 251.38 5.78 0.01 0.02 0.02 0.00 <th>VERICLE O</th> <th></th> <th>VEHICLE</th> <th>TMV</th> <th>STARTS</th> <th>ROG</th> <th>8</th> <th>XON</th> <th>PM2.5ex</th> <th>Tire W</th> <th>Brake W</th> <th>PM2.5sum</th> <th>SOx</th> <th>Gasoline</th> <th>Diesel</th>	VERICLE O		VEHICLE	TMV	STARTS	ROG	8	XON	PM2.5ex	Tire W	Brake W	PM2.5sum	SOx	Gasoline	Diesel
HDT 206188 14192 5023477 15.38 104.97 137.96 2.03 0.09 2.21 0.25 274.67 L&M 5489792 1376 3.47 0.41 1.09 4.97 0.87 977.22 OTH 54881 1376 23.5 27.00 16.94 0.00 0.01 0.29 0.07 0.07 OTH 54681 1376 3831800 14.71 14.71 21.38 6.00 0.01 0.09 6.97 0.07 0.08 0.09 0.01 0.09 0.09 0.00 0.01 0.09 0.03 </td <td>HDT 206188 14192 5023477 16.38 104.97 137.96 2.03 0.09 0.09 2.21 0.23 LEM 5488792 185037 33851800 98.87 1015.22 96.71 3.47 0.41 1.09 4.97 0.87 OTH 54681 1746 39925200 1.23 27.00 16.94 0.00 0.01 0.09 0.02 VIM 5760660 200976 117.39 1147.19 2.13 27.18 3.41 21.51 29.21 0.04 0.01 0.03 0.03 LEM 231804 36.8 16916 0.69 8.77 0.07 0.00 0.01 0.03 0.03 0.00 SUM 2388720 4.738 1437107 3.44 2.63 0.27 0.07 0.00 0.00 0.00 0.00 SUM 1.2891 4.74 2.63 0.23 0.07 0.00 0.00 0.00 0.00 0.00 0.00</td> <td>100</td> <td></td> <td>***************************************</td> <td></td> <td>***************************************</td> <td></td> <td></td> <td></td> <td>16 DO 04 660 0 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	HDT 206188 14192 5023477 16.38 104.97 137.96 2.03 0.09 0.09 2.21 0.23 LEM 5488792 185037 33851800 98.87 1015.22 96.71 3.47 0.41 1.09 4.97 0.87 OTH 54681 1746 39925200 1.23 27.00 16.94 0.00 0.01 0.09 0.02 VIM 5760660 200976 117.39 1147.19 2.13 27.18 3.41 21.51 29.21 0.04 0.01 0.03 0.03 LEM 231804 36.8 16916 0.69 8.77 0.07 0.00 0.01 0.03 0.03 0.00 SUM 2388720 4.738 1437107 3.44 2.63 0.27 0.07 0.00 0.00 0.00 0.00 SUM 1.2891 4.74 2.63 0.23 0.07 0.00 0.00 0.00 0.00 0.00 0.00	100		***************************************		***************************************				16 DO 04 660 0 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1						
HDT 206188 14192 5023477 16.38 10497 13796 2.03 0.09 2.21 0.22 0.22 2.71 0.22 0.02 2.71 0.22 0.02 2.71 0.22 0.03 0.03	HDT 206188 14192 5023477 16.38 104.97 137.96 2.03 0.09 0.09 2.21 0.05 L&M 548972 185037 38518800 98.87 1015.22 96.71 3.47 0.09 0.09 2.21 0.07 ULM 5760660 200976 38935200 117.59 1147.19 251.38 5.78 0.01 1.09 4.29 0.02 LLAM 2310804 70238 14317107 33.66 311.35 29.77 1.07 0.16 0.02 0.02 0.03 OTH 26894 7023 14317107 33.66 311.35 29.77 1.07 0.16 0.02 0.03 0.03 OTH 26894 7028 14317107 33.66 311.35 29.77 1.07 0.16 0.02 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00													400	£3 8£6	15 0000
HDT 205188 11912 332471 3672 347 041 1.09 4.97 087 977922 OTH 64681 1746 3929 2.35 101522 9671 347 041 1.09 4.97 087 97792 OTH 64681 1746 3993500 117.59 1167.19 251.58 0.00 0.01 0.29 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.04 0.02 0.02 0.02 0.02 0.03 0.04 0.02 0.02 0.02 0.02 0.03 0.04 0.02 0.02 0.02 0.02 0.03	HDT 206188 14172 30547 1615.2 96.71 34.7 0.41 1.09 4.97 0.87 L&M 548972 185037 3851800 98.87 1015.22 96.71 34.7 0.41 1.09 4.97 0.87 OTH 64681 1746 3893220 117.59 1147.19 251.58 5.78 0.00 0.01 0.29 0.02 L&M 51018 3473 1303401 3.41 21.51 29.21 0.44 0.02 0.02 0.03 0.03 OTH 26894 568 16916 0.69 8.67 4.27 0.07 0.06 0.00 0					7745 6773	16.29	104 07	137.96	2.03	6 0 0	0.00	2.21	0.25	70.4.7	10.0202
L&M 548792 18573 38871800 98.7 170522 96.71 37.7 0.71 0.29 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.03	L&M 548792 185072 33851800 98 87 1015.22 96.11 5.47 0.71 0.29 0.01 0.29 0.02 VIM 5760660 200976 389320 2.83 1015.22 96.11 5.47 0.01 0.29 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.	I OS(SCAB)		206188	14192	2073411	00.0	10.50			170	2	4 97	0.87	9279.22	31.01
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VIII 51018 3473 11759 1147.19 251.58 5.78 0.51 1.19 748 1.14 903.50 HDT 51018 3473 130340 1147.19 2151 2921 0.44 0.02 0.048 0.05 74.02 HDT 51018 3473 130340 34.1 21.51 29.21 0.44 0.02 0.048 0.05 74.02 OTH 25894 768 16916 0.69 8.67 4.23 0.07 0.00 0.00 0.00 2.84.6 0.00 2.84.6 0.00 2.84.6 0.00 2.84.6 0.00 2.84.6 0.00 2.84.6 0.00 2.84.6 0.00 0.00 0.00 0.00 2.84.6 0.00 2.84.6 0.00 2.84.6 0.00 2.84.6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	VIII 576666 20076 3893520 117.39 1147.19 251.58 5.78 0.51 1.19 7.48 1.14 LEM 21086 20076 3893520 117.39 1147.19 251.58 5.78 0.51 1.19 7.48 1.14 LEM 2310804 7028 14317107 3.46 311.35 29.77 1.07 0.16 0.41 1.64 0.31 OTH 26894 568 16916 0.69 8.67 4.23 0.07 0.00 0.00 0.00 0.00 0.00 OTH 2588720 1526 31.35 29.77 1.07 0.16 0.41 1.64 0.31 SUM 2388720 1528 13.43 2.69 8.67 4.23 0.07 0.00 0.00 0.00 OTH 2388723 4.74 2.69 4.37 4.37 4.34 2.69 0.67 0.05 0.02 0.03 0.00 OTH 2			10777	1746	60000	2.35	27.00	16.94	0.28	9.0	0.01	67.0	70.0	76.67.6	
HDT 51018 3473 1303401 3.44 21.51 29.71 0.44 0.02 0.02 0.48 0.05 74.02 L&M 2310804 70238 14317107 33.66 311.35 29.77 1.07 0.16 0.44 0.02 0.08 0.03 334.46 UAR 2388720 74280 16616 0.69 8.67 4.23 0.07 0.00 0.00 0.03 0.03 28.45 SUM 2388720 74280 15637400 37.74 341.52 63.20 1.38 0.18 0.44 2.20 0.09 0.00 0.03 0.03 2.84 SUM 2388720 4738 1383733 4.14 26.91 43.76 0.53 0.02 0.03 0.04 0.00	HDT 51018 3473 1303401 3.41 21.51 29.21 0.44 0.02 0.02 0.04 0.05 L&M 2310804 70238 14317107 33.66 311.35 29.77 1.07 0.16 0.41 1.64 0.31 L&M 2310804 70238 14917107 33.66 311.35 29.77 1.07 0.16 0.41 1.64 0.31 SUM 2388720 74280 15637400 37.74 341.52 63.20 1.58 0.07 0.00		E M	5760660	200976	38935200	117.59	1147.19	251.58	5.78	0.51	1.19	7.48	1.14	9033.80	74.0777
HDT 51018 3473 1303401 3.41 21.51 29.21 0.44 0.02 0.02 0.03 0.03 14.02 L&M 2310804 70238 14317107 33.66 311.35 29.77 1.07 0.16 0.04 1.64 0.03 34.45 OTH 26894 568 16916 0.69 31.35 6.27 0.00 0.00 0.08 0.03 28.45 OTH 28894 568 16916 0.69 31.35 0.61 0.00 0.00 0.08 0.03 0.61 0.03 28.45 SUM 101390 467 10916 0.48 7.28 2.61 0.09 0.02 0.03 0.01 0.03 24.78 OTH 23873 47620 2.63 1.27 0.12 0.03 0.04 0.20 0.03 2.84 OTH 101390 44808 7662020 2.28 2.51 0.03 0.02 0.01 0.03	HDT \$1018 3473 1303401 3.41 \$21.51 29.21 0.44 0.02 0.02 0.48 0.03 L&M 2310804 70238 14317107 33.66 311.35 29.77 1.07 0.16 0.41 1.64 0.03 OTH 26894 568 16916 0.69 8.67 4.23 0.07 0.06 0.00 0.00 0.00 SUM 2388720 74280 16537400 37.74 341.52 63.20 0.07 0.06 0.00 0.												,	0	57.5	31 537
HDT 51018 3473 150240 31135 29.77 1.07 0.16 0.41 1.64 0.31 3434.69 LEM 2318044 7628 1437107 3.66 31.33 29.77 1.07 0.16 0.41 1.64 0.31 3434.69 LEM 2388720 74280 15637400 37.74 341.52 63.20 1.58 0.02 0.00 0.00 0.08 0.00 28.45 SUM 2388720 74280 16532 6.59 43.76 0.55 0.02 0.03 0.01 0.00	HDT 51018 5473 130701 346 31135 29.77 1.07 0.16 0.41 1.64 0.31 LEM 2388720 768 14517107 3.66 31135 29.77 1.07 0.16 0.41 1.64 0.31 CLEM 2388720 74280 15637400 37.74 341.52 65.30 0.18 0.44 2.20 SUIA 2388720 74280 15637400 37.74 341.52 65.30 0.18 0.04 0.00 0.00 CLEAM 1013900 39602 6267361 15.50 172.49 16.32 0.67 0.09 0.03 0.01 OTH 23474 44808 7662020 20.12 20.667 62.71 1.27 0.12 0.00					1070001	171	21 41	1000	0.44	0.05	0.02	0.48	0.0	74.07	433.13
L&M 2318894 70238 14317107 35.00 31.73 27.71 10.71 0.00 0.00 0.00 0.08 0.00 28.45 OTH 28894 568 16916 0.69 86.7 0.00 0.00 0.00 0.00 0.00 2.845 SUM 2388720 74280 15610 0.44 2.01 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.01 0.00	L&M 2310804 70238 14317107 35.00 311.33 4.77 4.31.50 311.33 4.37 6.07 0.00 </td <td>ORA(SCAB)</td> <td>_</td> <td>51018</td> <td>34/3</td> <td>104001</td> <td>17.00</td> <td>1011</td> <td>20.00</td> <td>1 07</td> <td>91.0</td> <td>0.41</td> <td>1.64</td> <td>0.31</td> <td>3434.69</td> <td>12.17</td>	ORA(SCAB)	_	51018	34/3	104001	17.00	1011	20.00	1 07	91.0	0.41	1.64	0.31	3434.69	12.17
OTH 26894 568 16916 0.09 8.07 4.25 0.09 0.04 2.20 0.39 357.15 SUM 2388720 74280 15637400 37.74 341.52 63.20 1.58 0.04 2.20 0.03 0.61 0.08 89.457 HDT 57553 4738 1383733 4.14 26.91 43.76 0.55 0.02 0.03 0.61 0.08 0.09 0.08 0.00 0.00 0.00 24.78 OTH 23474 467 10916 0.48 7.28 2.61 0.07 0.02 0.03 0.06 0.00	OTH 26894 568 16916 0.69 8.07 4.23 0.59 0.28 0.69 0.29 0.29 0.29 0.03 0.61 0.08 SUM 2388720 74280 15637400 37.74 341.52 63.20 1.58 0.03 0.04 2.20 0.03 L&M 1013900 39602 6267361 15.50 172.49 16.32 0.67 0.09 0.23 1.00 0.08 OTH 23474 467 10916 0.48 7.28 2.61 0.04 0.00		L&M	2310804	70238	14317107	33.00	511.5	17.77	0.0		9	0.08	0.00	28.45	40.39
SUM 2388720 74280 15637400 37.74 341.52 63.20 1.58 0.18 0.44 2.20 0.03 0.61 0.08 89.94 HDT 57553 4738 1383733 4.14 26.91 43.76 0.55 0.02 0.03 0.61 0.08 89.94 LEM 1013900 39602 6267361 15.50 172.49 16.32 0.67 0.09 0.23 1.00 0.08 0.01 0.06 0.00 <th< td=""><td>SUM 2388720 74280 15637400 37.74 341.52 63.20 1.38 0.18 0.44 2.0 HDT 57553 4738 1383733 4.14 26.91 43.76 0.55 0.02 0.03 0.61 0.08 L&M 1013900 39602 6267361 15.50 172.49 16.32 0.67 0.09 0.23 1.00 0.18 OTH 23474 467 10916 0.48 7.28 2.61 0.04 0.00<</td><td></td><td>HILO</td><td>26894</td><td>268</td><td>91691</td><td>0.69</td><td>œ.0</td><td>67.4</td><td>5</td><td>3 :</td><td>3</td><td>00.0</td><td>0.00</td><td>31 7535</td><td>505.71</td></th<>	SUM 2388720 74280 15637400 37.74 341.52 63.20 1.38 0.18 0.44 2.0 HDT 57553 4738 1383733 4.14 26.91 43.76 0.55 0.02 0.03 0.61 0.08 L&M 1013900 39602 6267361 15.50 172.49 16.32 0.67 0.09 0.23 1.00 0.18 OTH 23474 467 10916 0.48 7.28 2.61 0.04 0.00<		HILO	26894	268	91691	0.69	œ.0	67.4	5	3 :	3	00.0	0.00	31 7535	505.71
HDT 57553 4738 1383733 4.14 26.91 43.76 0.55 0.02 0.03 0.61 0.08 89.94 L&M 1013900 39602 6267361 15.50 1724 16.32 0.67 0.09 0.23 1.00 0.18 1940.57 L&M 1013900 39602 6267361 15.50 17.24 16.32 0.67 0.09 0.03 0.06 0.00 0.06 0.00 0.00 24.78 VIM 1094930 44808 7662020 2.01 62.71 1.27 0.12 0.05 0.07 0.06 0.00 24.78 VIM 41683 3153 969645 2.65 17.20 30.59 0.38 0.06 0.17 0.14 1497.59 L&M 927501 30587 5737958 14.33 17.96 1.35 0.03 0.09 0.00 0.00 0.00 0.00 0.00 0.01 0.14 1497.59 SUM	HDT 57553 4738 1383733 4.14 26.91 43.76 0.55 0.02 0.03 0.61 0.08 L&M 1013900 39602 6.267361 15.50 172.49 16.32 0.67 0.09 0.23 1.00 0.18 OTH 23474 467 10916 0.48 7.28 2.61 0.04 0.00		SUM	2388720	74280	15637400	37.74	341.52	63.20	1.58	0.18	44.	7.70	6 .0		
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			SUM	10229600	354105	68952100	192.74	1833.29	473.34	7.30	2.0	•	ì	\ \ \		

Note:

Banning Area is included in SCAB, not in Coachella Valley

SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle

HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck

OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

CO = 1431.68 NOx = 132.48 a10SCAB.pm a10BRDN.SUM SCAB R2202 : VOC = 126.18 D. Emfac Basic Lemfac Burden. vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

Run Date: 09/30/05 14:34:24

Season : Annual

YEAR 2020 - annualPLAN (20p.zip)
Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled **
Scen Year: 2020 -- Model Years: 1975 to 2020

MARICARIS HDT 233337 16462 552998 11.0 65.4 12.0 11.4 53.5 0.0 Diaze Diaze LOKGCABI HDT 233337 16462 552998 11.0 65.4 12.0 0.1 1.1 53.5 0.89 951.164 11.96 ORA(SCAB) HDT 233337 16462 52.3 13.4 0.2 0.1 1.1 53.5 0.89 951.164 11.96 ORA(SCAB) HDT 578.14 1960 66.4 1.3 1.2 0.2 0.1 1.1 53.5 0.89 951.16 1.96 ORA(SCAB) HDT 50.8 1.1 1.3 0.2 1.2 1.1 0.2 0.0 <th>NO STATE</th> <th>TECADE!</th> <th>MISSIONS (Fmiss)</th> <th>ions in tone. \</th> <th>/MT in 1000-mile</th> <th>s, Fuel Consum</th> <th>nption in 1000-gallons</th> <th>-gallons)</th> <th></th> <th></th> <th>Friday, Septembe</th> <th>mber 30, 2005</th> <th>2:37:36 PM</th> <th>PM **********</th> <th>Page (1)</th>	NO STATE	TECADE!	MISSIONS (Fmiss)	ions in tone. \	/MT in 1000-mile	s, Fuel Consum	nption in 1000-gallons	-gallons)			Friday, Septembe	mber 30, 2005	2:37:36 PM	PM **********	Page (1)
HDT 233337 16462 5529986 11.03 53.4 57.43 120 0.11 0.11 5.35 0.89 9511.64 CIR 573144 193007 35247600 49.66 466.46 4.4.2 1.20 0.01 0.02 0.03 0.03 0.01 0.02 0.03	SUB AREA		VEHICLE	VMT	STARTS	ROG	00	NOX	PM2.5ex	Tire W	Brake W	PM2.5sum	SOx	Gasoline	Diesel
HDT 235357 16462 5529986 11.03 45.44 74.43 12.0 0.11 0.11 1.42 0.35 258.73 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>															
HDT 235357 16462 5529986 11.03 53.34 57.43 120 0.11 172 0.00 11.00 172 0.00 0.01 1.14 57.25 0.89 9511.64 OTH 7.2318 1960 67026 1.56 16.77 13.45 0.24 0.00 0.01 0.25 0.03 0.01 0.02 0.03									:	:	;	57.	0.30	258 73	2507.59
LAM 578314 193007 35247600 49.66 46.46 4.24 3.79 0.43 11.4 5.33 0.89 991109 OTH 772318 195007 35247600 49.66 12.77 11.45 0.24 0.04 0.01 0.25 0.08 99133 VIM 772318 1960 46.46 12.77 11.45 0.24 0.00 0.01 0.25 0.02 0.02 0.02 0.02 0.03 93133 1.01 LAM 243433 72511 1491486 12.77 1435 1.28 0.08 0.02 0.02 0.07 0.07 0.03 0.03 31.62 OTH 243433 76922 1441300 21.53 161.80 28.89 1.48 0.19 0.04 0.01 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03	(1100)00	11111	735367	16463	4420086	11.03	53.34	57.43	7.50	O.11	7.7	74.1			11.06
L&M 576144 1950 53270 126. 0.01 0.26 0.01 0.26 0.03 88.96 QH 578144 1950 5705 1.26 12.77 11.45 12.82 0.24 0.00 0.01 0.26 0.03 1.21 98.93 33 50.00 0.01 0.02 0.02 0.02 0.03 1.01 98.93 33 1.02 0.02 0.02 0.03 0.03 1.03 1.03 1.02 0.02 0.03 0.03 0.03 1.03 1.03 1.03 1.02 0.02 0.03 <	(480s) (480s) (480s)	2	755337	10000	0000000	70.60	466.46	CP CP	3.79	0.43	1.14	5.35	C.83	9211.04	11.70
OTH 72318 1896 67032 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.28 1.27 1.28 1.27 1.28 0.19 0.00 0.07 0.07 0.07 0.07 0.07 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <t< td=""><td></td><td>L&M</td><td>5768144</td><td>193007</td><td>3324/000</td><td>49.00</td><td>2 .</td><td>17.75</td><td>70</td><td>8</td><td>000</td><td>0.26</td><td>0.03</td><td>88.96</td><td>179.91</td></t<>		L&M	5768144	193007	3324/000	49.00	2 .	17.75	70	8	000	0.26	0.03	88.96	179.91
SUM 6075820 211430 40844600 62.58 532.38 113.31 5.25 0.03 0.03 0.03 0.03 0.03 0.03 0.078 0.03 0.078 0.03 0.04 0.01 0.00 </td <td></td> <td>OTH</td> <td>72318</td> <td>1960</td> <td>67052</td> <td>1.96</td> <td>17.71</td> <td>5.5</td> <td>† C</td> <td>3</td> <td>25.</td> <td>103</td> <td>1 21</td> <td>9859.33</td> <td>2699.48</td>		OTH	72318	1960	67052	1.96	17.71	5.5	† C	3	25.	103	1 21	9859.33	2699.48
HDT 59601 3826 1479185 2.54 1195 12.82 0.28 0.02 0.02 0.03 0.05		SUM	6075820	211430	40844600	62.58	237.28	16.611	2.63	0.5	}	3	!		
HDT 59601 38.6 138.6 1499185 2.54 11.95 12.82 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.03 0.04 0.04 0.03 0.04 0.03 0.04 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.04 0.03 0.04 0.04 0.04 0.04 0.04 0.04 0.01 0.04 0.04 0.01 0.04 0.01 0.04 0.04 0.04 0.01 0.04 0.01 0.01 0.01 0.01 0.01 0.01									9	5	5	0.33	0.05	70.78	528.00
L&M 2434533 72511 14914566 18.47 145.96 12.65 1.16 0.16 0.42 1.74 0.31 347.20 QTH 30887 654 19469 0.52 3.88 3.42 0.06 0.00 0.07 0.01 317.20 QTH 30887 654 19469 0.52 3.88 3.42 0.06 0.00 0.07 0.07 0.01 317.46 SUM 1515283 6109 175893 3.23 16.17 1975 0.39 0.03 0.04 0.14 0.04 0.14 0.04 0.14 0.04 0.14 0.04 0.14 0.04 0.14 0.04 0.14 0.04 0.14 0.04 0.14 0.04 0.14 0.04 0.14 0.04 0.11 0.04 0.11 0.04 0.11 0.04 0.11 0.04 0.11 0.04 0.11 0.04 0.11 0.04 0.11 0.04 0.11 0.04 0.11 <td>OD A (SCAR)</td> <td>HDT</td> <td>10965</td> <td>3826</td> <td>1479185</td> <td>2.54</td> <td>11.95</td> <td>12.82</td> <td>97.0</td> <td>70.0</td> <td>70.0</td> <td>70.0</td> <td>9 6</td> <td>20 35 4</td> <td>01 F</td>	OD A (SCAR)	HDT	10965	3826	1479185	2.54	11.95	12.82	97.0	70.0	70.0	70.0	9 6	20 35 4	01 F
LATA 7.3087 654 19469 0.22 3.88 3.42 0.06 0.00 0.00 0.00 0.00 0.00 357.46 SUM 2525020 76992 16413200 21.53 161.80 28.89 1.48 0.19 0.46 0.11 0.00	(ACC) TAC		2434612	17511	14014566	18.47	145.96	12.65	91:1	9.10	0.42	I./4	0.31	3473.07	9 (
OTH 30887 7694 19409 21.53 161.80 28.89 1.48 0.19 0.46 2.13 0.40 3577.46 SUM 2525520 76992 16413200 21.53 161.80 28.89 1.48 0.19 0.46 0.11 99.43 HDT 75183 46262 7442810 9.16 89.56 7.64 0.84 0.01 0.09 0.04 0.01 99.43 OTH 28616 572 1318 0.35 2.95 1.97 0.03 0.01 0.04 0.00 0.00 0.04 0.00 2.935 1.89 0.03 0.04 0.00 0.00 0.00 0.00 2.935 2.935 1.28 0.13 0.17 0.02 2.935 1.28 0.15 0.03 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0		T SEM	2434333	1167/	007171	2	2 88	3.47	90 0	00.0	0.00	0.07	0.00	31.62	45.63
SUM 2525020 76992 16413200 21.53 161.80 28.89 1.48 0.19 0.04 0.46 0.11 99.43 HDT 75183 6109 1759893 3.23 16.17 19.75 0.39 0.03 0.04 0.46 0.11 99.43 L&M 1215283 46262 7442810 9.16 89.56 7.64 0.84 0.11 0.29 1.22 0.23 0.23 0.23 0.23 0.23 0.23 0.23 0.23 0.23 0.23 0.23 0.04 0.01 0.02 0.01 0.03 0.04 0.		HIO	30887	40	19409	70.0	99.7				770	211	0.40	3577 46	577.81
HDT 75183 6109 1759893 3.23 16.17 19.75 0.39 0.03 0.04 0.46 0.11 99.43 L&M 1215283 46262 7442810 9.16 89.56 7.64 0.84 0.11 0.29 1.22 0.22 253.71 OTH 2.8616 572 1442810 9.16 89.56 7.64 0.84 0.11 0.29 1.22 0.29 1.22 0.00 0.00 0.00 0.00 29.35 29.35 1.97 0.03 0.00 0.04 0.00 29.35 29.35 1.28 0.15 0.01 0.03 0.00 29.35 29.35 1.13 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 177.36 178.249 0.11 0.25 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <		SUM	2525020	76992	16413200	21.53	161.80	28.89	.48	0.19	÷.	C1.7	?		
HDT 75183 6109 1759893 5.25 12.1 0.34 0.11 0.29 1.22 0.253.71 L&M 125283 46262 74318 9.16 89.56 7.64 0.84 0.11 0.29 1.22 0.20 29.35 OTH 28616 572 1318 0.35 2.95 1.97 0.03 0.00 0.00 0.00 29.35 29.35 SUM 1319080 52945 9216020 12.73 108.67 29.35 1.28 0.15 0.01 0.00 0.00 29.35 29.35 SUM 1319080 5603 4102 1271671 2.15 11.64 0.34 0.05 0.00 0.				,		,	16 17	37 01	0.30	0 03	0.04	0.46	0.11	99.43	892.77
L&M 1215283 46262 7442810 9.16 89.50 7.54 0.03 0.01 0.00 0.04 0.00 29.35 OTH 28616 572 13318 0.35 2.95 1.97 0.03 0.00 0.00 0.00 29.35 SUM 1319080 52945 9216020 12.73 108.67 29.35 1.28 0.05 0.00 0.00 0.00 29.35 HDT 56033 4102 1271671 2.15 11.04 14.56 0.26 0.02 0.01 0.32 0.07 17.13 OTH 19607 369 11943 0.22 1.69 1.54 0.03 0.00 <td>RIV(SCAB)</td> <td>HDT</td> <td>75183</td> <td>6109</td> <td>1/29893</td> <td>77.0</td> <td>10.1</td> <td>27.57</td> <td>700</td> <td>=</td> <td>0.00</td> <td>1 22</td> <td>0.22</td> <td>2253.71</td> <td>2.58</td>	RIV(SCAB)	HDT	75183	6109	1/29893	77.0	10.1	27.57	700	=	0.00	1 22	0.22	2253.71	2.58
OTH 28616 572 13318 0.33 2.59 1.59 0.03 0.03 0.03 0.32 238.49 SUM 1319080 52945 9216020 12.73 108.67 29.35 1.28 0.15 0.03 0.01 0.32 238.49 HDT 56033 4102 1271671 2.15 11.04 14.56 0.26 0.02 0.01 0.32 0.03 0.00 0.00 0.00 0.01 0.17.38 0.17.38 0.17.39 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.11 1.749.36 1.749.36 SUM 1147590 369 11943 0.22 1.69 1.54 0.03 0.00 0.00 0.00 0.00 0.00 0.177.93 1749.36 SUM 1147590 369 11045 79.58 21.98 0.84 0.11 0.23 0.14 0.13 0.14 0.15 0.14 0.14 </td <td></td> <td>L&M</td> <td>1215283</td> <td>46262</td> <td>7442810</td> <td>9.10</td> <td>06.70</td> <td>5.5</td> <td>5.0</td> <td></td> <td>í</td> <td>0</td> <td>000</td> <td>20.35</td> <td>28.12</td>		L&M	1215283	46262	7442810	9.10	06.70	5.5	5.0		í	0	000	20.35	28.12
SUM 1319080 52945 9216020 12.73 108.67 29.35 1.28 0.15 0.31 1.74 0.32 238.73 HDT 56033 4102 1271671 2.15 11.04 14.56 0.26 0.02 0.01 0.32 0.07 59.39 L&M 1071949 34607 6574312 8.08 66.85 5.88 0.54 0.06 0.00 0.01 0.11 0.15 167.28 SUM 1147590 39079 7857920 10.45 79.58 21.98 0.84 0.11 0.23 1.17 0.23 1749.36 SUM 1147590 39079 7857920 10.45 79.58 21.98 0.84 0.11 0.23 1.17 0.23 1749.36 L&M 10489918 346390 64179300 85.30 768.84 68.61 6.32 0.76 2.05 0.11 0.25 0.48 0.01 L&M 151428 3.556 111782		HLC	28616	572	13318	0.35	7.93	7.7	CO:O	3	3			07 0000	77 600
HDT 56033 4102 1271671 2.15 11.04 14.56 0.26 0.02 0.01 0.32 0.07 59.39 L&M 1071949 34607 6574312 8.08 66.85 5.88 0.54 0.06 0.20 0.01 0.16 167.36 OTH 19607 369 11943 0.22 1.69 1.54 0.03 0.00 0.03 0.00 17.13 OTH 19607 350 11943 0.22 1.69 1.54 0.03 0.00 0.03 0.00 17.13 SUM 1147590 39079 7857920 10.453 2.12 0.21 0.11 0.23 1749.36 HDT 426174 30499 10040742 18.94 92.49 104.53 2.12 0.16 2.05 9.14 1.59 16913.29 L&M 10489918 346390 64179300 85.30 76.84 68.61 6.32 0.76 2.05 9.14 1.59 <td></td> <td>SUM</td> <td>1319080</td> <td>52945</td> <td>9216020</td> <td>12.73</td> <td>108.67</td> <td>29.35</td> <td>1.28</td> <td>0.15</td> <td>0.31</td> <td>1.74</td> <td>0.32</td> <td>7362.49</td> <td>723.40</td>		SUM	1319080	52945	9216020	12.73	108.67	29.35	1.28	0.15	0.31	1.74	0.32	7362.49	723.40
HDT 56033 4102 1271671 2.15 11.04 14.56 0.26 0.02 0.01 0.32 0.07 59.39 L&M 1071949 34607 6574312 8.08 66.85 5.88 0.54 0.06 0.20 0.01 0.15 167.36 OTH 19607 369 11943 0.22 1.69 1.54 0.03 0.00 0.00 0.00 0.00 17.13 SUM 1147590 39079 7857920 10.45 79.58 21.98 0.84 0.11 0.23 1.17 0.23 1749.36 FIDT 426174 30499 10040742 18.94 92.49 104.53 2.12 0.22 0.18 2.52 0.52 488.32 L&M 10489918 346390 64179300 85.30 768.84 68.61 6.25 0.76 2.05 0.41 0.05 0.14 1.59 16913.29 OTH 115428 3556 111782												;			
L&M 1071939 3467 6574312 8.08 66.85 5.88 0.54 0.06 0.20 0.81 0.16 1672.86 L&M 1071949 3467 1574312 8.08 66.85 5.88 0.54 0.06 0.00 0.03 0.01 17.13 OTH 1147590 39079 7857920 10.45 79.58 21.98 0.84 0.11 0.23 1.17 0.23 1749.36 HDT 426174 30499 10040742 18.94 92.49 104.53 2.12 0.22 0.18 2.52 0.52 488.32 L&M 10489918 346390 64179300 85.30 768.84 68.61 6.32 0.76 2.05 0.14 1.59 167.05 OTH 115428 3556 111782 3.04 21.31 20.37 0.38 0.01 0.02 0.41 0.05 0.01 0.02 0.14 0.05 17568.64 17568.64	(0.40)	1.011	66033	4100	1271671	2.15	11.04	14.56	0.26	0.02	0.01	0.32	0.07	59.39	11.00
L&M 10/1949 346/19 11/34 0.22 1.54 0.03 0.00 0.03 0.00 17.13 OTH 1967 3469 11943 0.22 1.69 1.54 0.03 0.00 0.03 0.00 17.13 SUM 1147590 39079 7857920 16.45 79.58 21.98 0.84 0.11 0.23 1.17 0.23 1749.36 LAM 10489918 346390 64179300 85.30 768.84 68.61 6.32 0.76 2.05 9.14 1.59 16913.29 OTH 151428 3556 111782 3.04 193.52 8.83 0.01 0.02 0.41 0.05 0.41 0.05 167.05 SUM 11067500 380446 74331800 107.29 8.83 0.98 2.25 12.07 2.16 17568.64	SBD(SCAD)		00000	20776	61674313	80	58 99	5 88	0.54	90:0	0.20	0.81	0.16	1672.86	1.61
OTH 1960/1 369 11943 0.23 1749.36 SUM 1147590 39079 7857920 10.45 79.58 21.98 0.84 0.11 0.23 1.17 0.23 1749.36 I HDT 426174 30499 10040742 18.94 92.49 104.53 2.12 0.22 0.18 2.52 0.52 488.32 L&M 10489918 346390 64179300 85.30 768.84 68.61 6.32 0.76 2.05 9.14 1.59 16913.29 OTH 151428 3556 74331800 107.29 882.64 193.52 8.83 0.98 2.25 12.07 2.16 17568.64		L GE M	10/1949	74007	11041	9.0	69.0	1 54	003	000	0.00	0.03	0.00	17.13	23.01
SUM 1147)90 33079 7637520 1057		H	/0961	2000	25611	77.0	70 58	21.08	0.84	0.11	0.23	1.17	0.23	1749.36	659.80
HDT 426174 30499 10040742 18.94 92.49 104.53 2.12 0.22 0.18 2.52 0.52 488.32 488.32 1.22 1.59 16913.29 1.59 16913.29 1.59 16913.29 1.59 16913.29 1.59 16913.29 1.59 16913.29 1.59 16913.29 1.59 1.59 16913.29 1.5		SCM	114/590	39079	0761001	2.01	90.00								
HDT									:	100	91.0	2 53	0.50	488 12	4563.53
L&M 10489918 346390 64179300 85.30 768.84 68.61 6.32 0.76 2.05 9.14 1.59 10915.29 OTH 151428 3556 111782 3.04 21.31 20.37 0.38 0.01 0.02 0.41 0.05 167.05 SUM 11067500 380446 74331800 107.29 882.64 193.52 8.83 0.98 2.25 12.07 2.16 17568.64	SCAR STIM	HDT	426174	30499	10040742	18.94	32.49	104.33	71.7	77.0	o :	4.34	100		76.00
151428 3556 111782 3.04 21.31 20.37 0.38 0.01 0.02 0.41 0.05 167.05 15.05 15.05 11.057500 380446 74331800 107.29 882.64 193.52 8.83 0.98 2.25 12.07 2.16 17568.64		I P.M	10480018	146390	64179300	85.30	768.84	68.61	6.32	0.76	2.05	9.14	1.59	16913.29	20.30
11067500 380446 74331800 107.29 882.64 193.52 8.83 0.98 2.25 12.07 2.16 17568.64			017/0101	3556	111782	2	21.31	20.37	0.38	0.01	0.05	0.41	0.05	167.05	276.67
		N N	11067500	380446	74331800	107.29	882.64	193.52	8.83	0.98	2.25	12.07	2.16	17568.64	4860.55

Note:

Banning Area is included in SCAB, not in Coachella Valley

SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle

HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck

OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

a20SCAB pm

a20BRDN.SUM

SCAB R2202 : VOC = 59.81 CO = 647.11 NOx = 56.19

D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

YEAR 2030- PLAN (30P.zip)

Run Date: 09/30/05 10:37:29

Season : Annual

Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2030 -- Model Years: 1985 to 2030

VEHICLE ON-ROAD EMISSIONS (Emissions in tone, VMT in 1000-miles, Fuel Consumption in 1000-gallons) 6.05 305.05 5676.96 193.94 581.07 1.15 49.67 631.90 0.72 0.72 34.01 1115.72 810.66 0.41 27.42 838.50 5365.86 74.16 1896.27 115.86 0446.57 3563.88 40.00 41.83 2803.24 119.85 3678.31 2641.55 1994.71 552.95 8147.89 0.12 0.25 0.00 0.38 0.07 0.09 0.18 0.00 0.28 0.94 0.03 1.31 5.72 2.73 2.73 5.74 0.30 1.82 0.06 2.17 0.04 0.04 0.04 0.04 0.36 0.92 0.04 1.31 0.02 0.45 0.47 0.02 1.34 1.34 0.00 0.00 0.02 0.06 0.19 0.13 0.00 0.59 0.00 0.03 0.09 0.13 4.07 6.21 5.33 5000 0.4 1.01 1.44 1.44 0.28 0.60 0.03 0.92 6.90 6.90 0.33 2.67 1.49 11.36 38.24 22.69 10.24 71.17 14.91 4.65 314.28 1.87 10.71 54.25 60.57 9.16 1.07 ႘ 3.30 6.77 0.19 10.24 228 11.90 0.29 14.49 16.36 78598 43635500 1691243 15351695 2254109 16356 15032 STARTS 6191405 37365501 22296 7065200 0879500 7397128 9104850 132282 30685100 3609005 1692695 1829447 2416 225985 7374 53472 5207 39148 44860 **TMV** 35609 61611 79461 VEHICLE 267269 6141182 96393 6504850 75164 1208648 1311980 204786 11993600 40310 2630330 97122 1409404 39914 28169 68914 2521110 546440 508469 [&M HDT L&M L&M OTH HDT L&M OTH SUM 百五 Ħ ORA(SCAB) SBD(SCAB) LOS(SCAB) RIV(SCAB) SCAB SUM **SUB AREA**

SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others Banning Area is included in SCAB, not in Coachella Valley

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

P30SCAB.pm P30BRDN.SUM

SCAB R2202 : VOC = 36.81

NOx = 30.14CO = 367.26 Conformity Analysis SCAG D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov

YEAR 2010 - NBannual (10NB.zip) Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2010 -- Model Years: 1965 to 2010

Run Date: 10/11/05 15:05:35 Season : Annual

VEHICLE ON-ROAD EMISSIONS (Emissions in tone, VMT in 1000-m SUB AREA VEHICLE VMT STARTS LOS(SCAB) HDT 206209 14194 5023946	日 # (2)	vissions in tone, V VMT VMT 14194	MT in 1000-miles STARTS 5023946	Fuel Consum ROG	CO 105.41	n 1000-gailons) NOX 11 135.67	PM2.5ex	Tire W	Brake W PM2.	ober 11, 2005 PM2.5sum	SOx 0.25	- : () i	Page (1) Diesel
5705500 19308 35181928 1 64681 1746 5929 1 5976390 208248 40265800 1	35181928 35181928 15929 40265800		' = =	2.35 2.35 122.31	1062.88 27.00 1195.29	100.71 16.94 253.32	3.68 0.28 6.04	0.42 0.00 0.52	1.14 0.01 1.23	5.24 0.29 7.79	0.90	9739.84 79.97 10096.43	32.23 172.10 2224.83
50715 3451 1295665 1 2366251 71924 14660636 26894 568 16916 1 2443860 75945 15973200	1295665 14660636 16916 15973200		`M` M	34.54 0.69 38.64	21.43 320.27 8.67 350.37	28.76 30.51 4.23 63.50	0.44 1.10 0.07 1.62	0.02 0.16 0.18 0.18	0.02 0.42 0.00 0.45	0.48 1.70 0.08 2.25	0.05 0.33 0.39 0.39	73.98 3533.04 28.45 3635.47	450.46 12.46 40.39 503.32
HDT 56528 4654 1359077 4 L&M 1056890 41283 6533097 16 OTH 23474 467 10916 C SUM 1136890 46403 7903090 20	1359077 6533097 10916 7903090		4 5 0 2	4.12 16.25 0.48 20.84	26.51 181.34 7.28 215.12	42.10 17.06 2.61 61.78	0.55 0.72 0.04 1.32	0.02 0.10 0.12 0.12	0.03 0.24 0.27	0.61 1.05 0.06 1.72	0.08 0.20 0.00 0.27	88.64 2042.97 24.78 2156.38	640.00 7.56 22.85 670.40
HDT 4247 3211 987446 2 L&M 951616 31383 5887138 14 OTH 16085 301 9798 0 SUM 1010150 34894 6884390 17	987446 5887138 9798 1 6884390		407	22.54	17.44 142.27 4.74 164.46	30.37 13.59 1.96 45.92	0.40 0.46 0.90	0.02 0.00 0.09	0.01 0.18 0.21	0.44 0.72 0.03 1.20	0.05 0.14 0.20	52.59 1534.50 14.78 1601.87	476.93 4.94 18.95 500.83
355899 25511 8666130 10080253 336896 62262795 131134 3083 97559 10567300 365489 71026500	8666130 62262795 97559 71026500		26. 168. 199.	82 82 83	170.78 1706.76 47.68 1925.24	236.89 161.88 25.74 424.52	3.48 5.96 0.43 9.88	0.18 0.75 0.00 0.92	0.15 2.00 0.02 2.17	3.80 8.70 0.45 12.96	0.42 1.58 0.05 2.05	491.84 16850.35 147.98 17490.16	3587.89 57.22 254.29 3899.38

Note:

Banning Area is included in SCAB, not in Coachella Valley

SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle

HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck

OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

N10SCAB.pm

N10BRDN.SUM

SCAB R2202 : VOC = 131.36 CO = 1494.48 NOx = 137.42 PM10 = 7.77

Conformity Analysis SCAG D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov

YEAR 2020 - NBannual (20NB.zip)

Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2020 -- Model Years: 1975 to 2020

Run Date: 10/11/05 15:57:11 Season : Annual

VEHICI F ON	-ROAD EI	VEHICLE ON BOAD EMISSIONS (Emissions in tone, VMT in 1000-mil	ons in tone, V	'MT in 1000-miles,	s, Fuel Consum	option in 1000	-gallons)			Tuesday, October 1	ober 11, 2005	5:06:09 PM	M	Page (1)
SUB AREA	****	**************************************	**************************************	STARTS	ROG	00	NOX	PM2.5ex	Tire W	Brake W	PM2.5sum	SOx	Gasoline	Diesel
LOS(SCAB)	HOT	237043	16580	5569588	11.28	54.45	56.15	1.26	0.11	0.11	1.49	0.30	268.09	2525.54 12.80
•	L&M OTH SUM	6171642 72318 6481000	206510 1960 225049	37713216 67052 43349900	53.68 1.96 66.91	509.25 12.77 576.48	45.84 13.45 115.43	5.81 5.81	0.00	133	0.26	0.03	88.96 10825.70	179.91 2718.27
ORA(SCAB)	HDT L&M	60323 2545718	3871	1497110	2.59	12.21 154.60	12.82	0.28 1.25 0.06	0.02	0.02 0.45 0.00	0.33 1.86 0.07	0.06	73.03 3683.62 31.62	534.39 4.37 45.63
	SUM	30887 2636930	654 80350	17112300	22.51	170.69	29.52	1.59	0.19	0.48	2.26	0.42	3788.27	584.40
RIV(SCAB)	HDT 1.8M	70752	5750 48852	1656177 7859484	3.11	15.62 97.41	18.28 8.21	0.39	0.03	0.04	0.46	0.10	98.94 2493.18	2.72
	OTH	28616 1382690	572 55175	13318 9528980	0.35 13.29	2.95 115.99	1.97 28.45	0.03	0.00	0.00	0.04 1.89	0.00	2621.47	870.99
SBD(SCAB)	HDT	54366	3980	1233856	2.12	10.75	13.57	0.27	0.02	0.01	0.32	0.06	57.35 1727.01	616.28
	OTH SUM	19607 19607 1175270	369 39904	11943 8000120	10.65	1.69	1.54 21.16	0.03	0.00	0.00	0.03	0.00	17.13	23.01 640.96
SCAB SUM	HDT	422484	30182	9956718	19.09	93.01	100.81	2.20	0.21	0.18	2.59	0.52	497.40	4516.38
	OTH	151428 11675900	3556	111782	3.04 113.36	21.31 945.70	20.37 194.56	0.38 9.68	0.01 1.03	0.02	0.41 13.08	0.0 5 2.30	167.05 19036.91	276.67 4814.62

Banning Area is included in SCAB, not in Coachella Valley
Banning Area is included in SCAB, not in Coachella Valley
Banning Area is included in SCAB, not in Coachella Valley
BUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others
L&M = Passenger car + Light Duty Truck (1) & (2) + Medium Duty Truck + Heavy Heavy Duty Truck
HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck
OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home
N20SCAB.pm
N20BRDN.SUM
SCAB R2202 : VOC = 64.18 CO = 701.75 NOx = 60.13 PM10 = 8.98

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YEAR 2030 - NBannual (30NB.zip)

Run Date: 10/11/05 15:32:23

Season : Annual

Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2030 -- Model Years: 1985 to 2030

VEHICLE ON-ROAD EMISSIONS (Emissions in tone, VMT in 1000-miles, Fuel Consumption in 1000-gallons) 577.17 1.22 49.67 628.08 995.95 0.73 34.01 1030.69 727.83 0.42 27.42 755.67 305.05 193.94 3028.73 6.40 2830.79 5131.74 2049.78 40.00 3953.79 2961.97 41.83 67.49 1958.00 24.28 562.60 296.84 11265.54 115.86 11678.25 75.77 3838.01 122.49 Gasoline 0.33 1.07 0.03 1.42 0.07 0.36 0.00 0.44 0.12 0.27 0.00 0.40 0.07 0.19 0.00 0.27 SÖX PM2.5sum 1.35 6.60 0.23 8.18 0.30 1.97 0.06 2.34 0.50 1.68 0.04 2.23 0.33 0.97 0.04 1.34 Brake W 0.02 0.46 0.00 0.50 0.04 0.33 0.00 0.37 0.03 0.24 0.27 0.11 0.02 1.42 Tire W 0.03 0.12 0.48 0.00 0.62 0.02 0.00 0.20 0.04 0.13 0.17 PM2.5ex 0.41 1.22 0.03 1.68 0.26 0.03 0.95 4.82 0.21 6.14 0.25 1.32 0.05 1.64 36.30 24.68 10.24 71.24 13.38 9.79 3.44 14.37 67.82 8.35 7.31 2.67 18.34 XOX 9.59 93.27 2.76 9.77 44.53 1.07 55.36 496.10 40.53 292.05 9.16 341.73 105.62 14.77 66.26 1.87 82.92 ဗ 2.29 12.63 0.29 15.22 7.77 16.07 22296 17925200 16356 11028000 1519739 15032 9018390 6057990 39799565 78598 7483619 132282 11334389 1679917 2076749 72441032 8934934 15936100 18466 218031 2416 238912 4128 78733 802 83662 55496 764 63055 4675 39608 503 44786 34063 6794 1318430 68452 2664206 40310 1462764 39914 1592160 67483 1222779 28169 486925 204786 12582700 VEHICLE 6541212 96393 6899120 2772960 1890958 89481 HDT L&M OTH HDT L&M OTH SUM HDT V&M NOS HDT OTH SUM SUM SBD(SCAB) ORA(SCAB) LOS(SCAB) SCAB SUM RIV(SCAB) SUB AREA

Note:
Banning Area is included in SCAB, not in Coachella Valley
SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others

- RAM = December ces + Light Duty Truck(1) & (2) + Medium Duty Truck + Moto

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

N30SCAB.pm N30BRDN.SUM

 D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

Total Population Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	9576322 2867240 1525315 1695031 758090 16421998
-Total Workers Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	4078765 1383655 614719 676330 359204 7112673
-Total Employement Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	4447345 1514576 515463 589369 337259 7404012
-Total Household Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	3135803 939712 503431 522640 244477 5346063
-Total Person Trips Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	32153636 10669848 5228154 5640028 2797439 56489106
-Total Person Trips by Trip type Home Base Work Home Base University Home Base School Home Base Other Other Base Other Work Base Other TOTAL	9090292 1861244 5245811 22239131 11974061 6078650 56489189
-Home To Work/University Mode Choice Drive Alone % Person Trips	8366038 76 392

% Person Trips

76.392

Carpool % Person Trips Transit % Person Trips Non-Motorized % Person Trips	1572766 14.361 527584 4.817 485066 4.429
Home-Work Vehicle Person Home-Work Vehicle Driver Average Vehicle Occupancy	9938802 9016660 1.1023
-Total Person Trips Mode Choice Drive Alone % Person Trips Carpool % Person Trips Transit % Person Trips School Bus % Person Trips Non Motorized % Person Trips	26990326 47.780 22848017 40.447 1219623 2.159 742246 1.314 4688894 8.301
Total Vehicle Persons Total Vehicle Driver Average Vehicle Occupancy	49838343 34739205 1.4346
-Daily Transit Boarding Metrolink MTA bus MTA Rail Others Maglev TOTAL	29585 1283152 211996 732781 2257514
-Average Trip Length Home-To-Work Avg Travel Time Home-To-Work Avg Travel Distance All Trip Type Avg Travel Time All Trip Type Avg Travel Distance	21.2320 12.5133 13.4917 7.8935
-Avg Travel Speed (Light and Medium	Vehicles)
Total Modeling Area (Daily) Avg Mix-Flow Speed Avg HOV Speed Avg Arterial Speed Avg Speed (All Facilities)	49.7662 52.6685 30.3926 35.3838
SCAB Area (Daily) Avg Mix-Flow Speed Avg HOV Speed	48.8867 52.6027

Avg Arterial Speed	29.4061
Total Modeling Area (6-9 AM) Avg Mix Flow Speed Avg Hov Speed Avg Arterial speed Avg Speed (All Facilities)	46.6389 51.1901 29.1005 33.5780
-Vehicle Miles Traveled (VMT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	343169768 27260191 370429958
-Vehicle Hours Traveled (VHT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	9698491 620251 10318742
-Vehicle Hours Delayed Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	1476769 100845 1577614
-Air Quality Statistics: Emissions Tons of ROG By Air-Basin South Coast AB Ventura County	by Air Basin 350.540

Total Population	
Los Angeles County	10711323
Orange County Riverside County	3291738
San Bernardino County	20 45211 2032156
Ventura County	865187
TOTAL	18945615
-Total Workers	
Los Angeles County	4499020
Orange County	1551664
Riverside County	850510
San Bernardino County	825662
Ventura County	405114
TOTAL	8131970
-Total Employement	
Los Angeles County	5015790
Orange County Riverside County	1749993
San Bernardino County	715241
Ventura County	764667 381678
TOTAL	8627369
	002/003
-Total Household	
Los Angeles County	3402537
Orange County	1033974
Riverside County San Bernardino County	678936
Ventura County	610580
TOTAL	275366 6001393
	0001393
-Total Person Trips	
Los Angeles County	34474669
Orange County	11755866
Riverside County San Bernardino County	6664306
Ventura County	6473809
TOTAL	3096667 62465318
	02403310
-Total Person Trips by Trip type	
Home Base Work	10038697
Home Base University	2287694
Home Base School Home Base Other	5553078
Other Base Other	24562146
Work Base Other	13235601
TOTAL	6788180 62 46 5396
	02403330
-Home To Work/University Mode Choice	
Drive Alone	9067330
% Person Trips	73.561

Carpool % Person Trips Transit % Person Trips Non-Motorized % Person Trips	1808504 14.672 753044 6.109 697436 5.658
Home-Work Vehicle Person Home-Work Vehicle Driver Average Vehicle Occupancy	10875833 9810709 1.1086
-Total Person Trips Mode Choice Drive Alone % Person Trips Carpool % Person Trips Transit % Person Trips School Bus % Person Trips Non Motorized % Person Trips	29171346 46.700 24976623 39.985 1881195 3.012 761013 1.218 5675141 9.085
Total Vehicle Persons Total Vehicle Driver Average Vehicle Occupancy	54147969 37671461 1.4374
-Daily Transit Boarding Metrolink MTA bus MTA Rail Others Maglev TOTAL	66572 1917405 313155 1067561 3364693
-Average Trip Length Home-To-Work Avg Travel Time Home-To-Work Avg Travel Distance All Trip Type Avg Travel Time All Trip Type Avg Travel Distance	20.9556 12.3295 13.4450 7.8983
-Avg Travel Speed (Light and Medium	Vehicles)
Total Modeling Area (Daily) Avg Mix-Flow Speed Avg HOV Speed Avg Arterial Speed Avg Speed (All Facilities)	50.2362 52.9353 30.5155 35.5352
SCAB Area (Daily) Avg Mix-Flow Speed Avg HOV Speed	49.2588 52.8414

Avg Arterial Speed	29.4124
Total Modeling Area (6-9 AM) Avg Mix Flow Speed Avg Hov Speed Avg Arterial speed Avg Speed (All Facilities)	46.5581 51.0685 28.9609 33.4181
-Vehicle Miles Traveled (VMT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	369574810 28964031 398538840
-Vehicle Hours Traveled (VHT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	10400258 660375 11060633
-Vehicle Hours Delayed Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	1550466 104735 1655201

-Air Quality Statistics: Emissions by Air Basin Tons of ROG By Air-Basin South Coast AB

-Total Population Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	11483177 3433722 2608023 2370524 929195 20824641
-Total Workers Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	4867685 1632560 1079787 966212 438415 8984659
-Total Employement Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	5362879 1848112 942655 969385 424479 9547510
-Total Household Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	3762057 1064086 902812 749838 303602 6782395
-Total Person Trips Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	37397804 12270954 8516223 7726383 3347280 69258644
-Total Person Trips by Trip type Home Base Work Home Base University Home Base School Home Base Other Other Base Other Work Base Other TOTAL	10907792 2364345 6213956 27426698 14794165 7551799 69258755
-Home To Work/University Mode Choice Drive Alone % Person Trips	9750798 73.469

Carpool % Person Trips Transit % Person Trips Non-Motorized % Person Trips	1896798 14.292 874244 6.587 750187 5.652
Home-Work Vehicle Person Home-Work Vehicle Driver Average Vehicle Occupancy	11647595 10533654 1.1058
-Total Person Trips Mode Choice Drive Alone % Person Trips Carpool % Person Trips Transit % Person Trips School Bus % Person Trips Non Motorized % Person Trips	32357317 46.720 27550479 39.779 2171176 3.135 816423 1.179 6363249 9.188
Total Vehicle Persons Total Vehicle Driver Average Vehicle Occupancy	59907796 41710811 1.4363
-Daily Transit Boarding Metrolink MTA bus MTA Rail Others Maglev TOTAL	83877 2093890 487240 1163386 106480 3934873
-Average Trip Length Home-To-Work Avg Travel Time Home-To-Work Avg Travel Distance All Trip Type Avg Travel Time All Trip Type Avg Travel Distance	20.7182 12.0654 13.2353 7.6746
-Avg Travel Speed (Light and Medium	Vehicles)
Total Modeling Area (Daily) Avg Mix-Flow Speed Avg HOV Speed Avg Arterial Speed Avg Speed (All Facilities)	49.7815 53.0731 30.2584 34.9990
SCAB Area (Daily) Avg Mix-Flow Speed Avg HOV Speed	48.7414 52.7577

Avg Arterial Speed	29.0992
Total Modeling Area (6-9 AM) Avg Mix Flow Speed Avg Hov Speed Avg Arterial speed Avg Speed (All Facilities)	46.5040 50.9569 28.6129 32.9496
-Vehicle Miles Traveled (VMT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	398648845 34773476 433422321
-Vehicle Hours Traveled (VHT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	11390303 797756 12188060
-Vehicle Hours Delayed Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	1756903 134777 1891680
-Air Quality Statistics: Emissions by Tons of ROG By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	Air Basin 119.000 6.200 2.120 3.840 2.150 133.31
Tons of CO By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	868.560 39.990 19.980 37.890 22.010 988.43
Tons of NOX By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	206.460 6.880 3.260 10.090 5.260 231.95
Tons of PM10 By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley	18.740 .790 .450 .840

	Coachella Valley TOTAL	.550 21.37
Tons of	SOx By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	2.110 .090 .050 .100 .060 2.41
GASOLIN	E in 1000 Gallons B South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	y Air-Basin 17118.230 903.700 486.440 727.320 526.300 19762
DIESEL	in 1000 Gallons By South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	Air-Basin 4860.560 128.210 68.710 246.860 131.660 5436



-Total Population Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	12196590 3552955 3110387 2686063 989771 22535766
-Total Workers Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	5210346 1701552 1280466 1097783 469998 9760145
-Total Employement Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	5656758 1921795 1174109 1175961 465497 10394120
-Total Household Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	4118181 1098477 1124411 890967 332115 7564151
-Total Person Trips Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	40170427 12677725 10322321 8843668 3621615 75635757
-Total Person Trips by Trip type Home Base Work Home Base University Home Base School Home Base Other Other Base Other Work Base Other TOTAL	11643519 2440866 6873343 30100825 16280651 8296683 75635887
-Home To Work/University Mode Choice Drive Alone % Person Trips	10295251 73.098

Carpool % Person Trips Transit % Person Trips Non-Motorized % Person Trips	1947277 13.826 1049147 7.449 792582 5.627
Home-Work Vehicle Person Home-Work Vehicle Driver Average Vehicle Occupancy	12242526 11102494 1.1027
-Total Person Trips Mode Choice Drive Alone % Person Trips Carpool % Person Trips Transit % Person Trips School Bus % Person Trips Non Motorized % Person Trips	35302362 46.674 29946970 39.594 2535466 3.352 870265 1.151 6980695 9.229
Total Vehicle Persons Total Vehicle Driver Average Vehicle Occupancy	65249331 45425978 1.4364
-Daily Transit Boarding Metrolink MTA bus MTA Rail Others Maglev TOTAL	101100 2229148 641751 1334329 381441 4687769
-Average Trip Length Home-To-Work Avg Travel Time Home-To-Work Avg Travel Distance All Trip Type Avg Travel Time All Trip Type Avg Travel Distance	20.7849 12.0435 13.2841 7.6567
-Avg Travel Speed (Light and Medium	Vehicles)
Total Modeling Area (Daily) Avg Mix-Flow Speed Avg HOV Speed Avg Arterial Speed Avg Speed (All Facilities)	49.6026 52.4633 29.8075 34.6119
SCAB Area (Daily) Avg Mix-Flow Speed Avg HOV Speed	48.5279 52.1935

Avg Arterial Speed	28.6304
Total Modeling Area (6-9 AM) Avg Mix Flow Speed Avg Hov Speed Avg Arterial speed Avg Speed (All Facilities)	46.5477 51.1098 28.0396 32.5494
-Vehicle Miles Traveled (VMT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	431796436 40806707 472603144
-Vehicle Hours Traveled (VHT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	12475358 940672 13416030
-Vehicle Hours Delayed Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	2012676 164719 2177395

-Air Quality Statistics: Emissions by Air Basin (1)
Tons of ROG By Air-Basin
South Coast AB